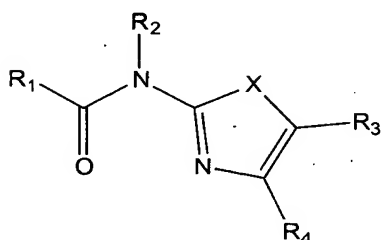


IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A methionine aminopeptidase inhibitor ~~represented by~~ comprising: a compound having the general formula
formula



wherein

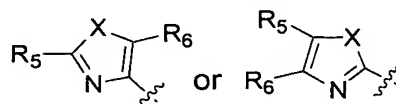
R₁ is selected from the group ~~consisting of~~ comprising

- (1) C₁-C₄ alkyl,
- (2) C₃-C₆ cycloalkyl,
- (3) Aryl,
- (4) 2-, 3- or 4- pyridyl,

where (1) and (2) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C₁-C₆ alkoxy or hydroxy, and

where (3) and (4) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio, and

(5) heterocycle having the following structure:



where R_5 , R_6 are selected independently from the group ~~consisting of~~ comprising

- (a) hydrogen,
- (b) C_1 - C_4 alkyl
- (c) C_3 - C_6 cycloalkyl,
- (d) Aryl,
- (e) 2-, 3- or 4- pyridyl,

where (b) and (c) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C_1 - C_6 alkoxy or hydroxy, and

where (d) and (e) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C_1 - C_4 alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio,

X is selected from the group ~~consisting of~~ comprising O, S, N;

R_2 is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) C_1 - C_4 alkyl,
- (3) C_3 - C_6 cycloalkyl,
- (4) Aryl,

where (2) and (3) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C_1 - C_6 alkoxy or hydroxy, and

where (4) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C_1 - C_4 alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio;

R_3 is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) halogen atoms,
- (3) C₁-C₄ alkyl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C₁-C₆ alkoxy or hydroxy,
- (4) Aryl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio;

R₄ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) C₁-C₄ alkyl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C₁-C₆ alkoxy or hydroxy,
- (3) Aryl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, carbonylamide, alkylthio, methylthio, ethylthio;

X is selected from the group ~~consisting of~~ comprising O, S, N.

2. (Currently Amended) A methionine aminopeptidase inhibitor according to claim 1 in which

R₁ is selected from the group ~~consisting of~~ comprising 2-, 3- or 4- pyridyl, each can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, halogen atoms, nitro, carboxyl, aldehyde, alkoxy, alkoxycarbonyl, alkylamino, acylamide;

R₂ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,

- (2) C₁-C₆ alkyl,
- (3) C₂-C₆ alkenyl,
- (4) C₂-C₆ alkynyl,
- (5) C₃-C₆ cycloalkyl
- (6) Aryl,
- (7) benzyl

where (2) and (5) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C₁-C₆ alkoxy or hydroxy, and

where (6) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, carbonylamide, alkylthio;

R₃ is selected from the group ~~consisting of~~ comprising hydrogen, Br, C₁-C₄ alkyl;

R₄ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) C₁-C₄ alkyl,
- (3) Aryl,

where (3) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, carbonylamide, alkylthio;

3. (Currently Amended) A methionine aminopeptidase inhibitor according to claim 1 in which

R₁ is selected from the group ~~consisting of~~ comprising aryl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising nitro, alkylamino, halogen atoms, C₁-C₄ alkoxy, hydroxy, carboxyl, benzyl;

R₂ is selected from the group ~~consisting of~~ comprising hydrogen, C₁-C₄ alkyl;

R₃ is selected from the group ~~consisting of~~ comprising hydrogen, halogen atoms, C₁-C₄ alkyl;

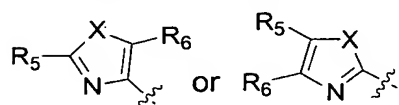
R₄ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) C₁-C₄ alkyl,
- (3) Aryl,

where (3) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, halogen atoms, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio.

4. (Currently Amended) A methionine aminopeptidase inhibitor according to claim 1 in which

R₁ is selected from the following heterocycle structure:



X is selected from the group ~~consisting of~~ comprising O, S, NH;

R₂ is selected from the group ~~consisting of~~ comprising hydrogen, C₁-C₄ alkyl;

R₃ is hydrogen;

R₄ is hydrogen;

R₅, R₆ are selected independently from the group ~~consisting of~~ comprising

- (a) hydrogen,
- (b) C₁-C₄ alkyl,
- (c) C₃-C₆ cycloalkyl,
- (d) Aryl,
- (e) 2-, 3- or 4- pyridyl,

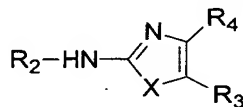
where (b) and (c) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~

comprising halogen atoms, C₁-C₆ alkoxy or hydroxy,

and

where (d) and (e) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio,

5. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 1 which comprises condensating of a compound of the general formula R₁COY with a compound of the general formula



in which Y represents hydroxyl, halogen atoms and the other activated group.

6. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 5 wherein the dehydration reagents used in this reaction may be DCC, ECD, DIC, HBTU.
7. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 5 wherein the solvent used in this condensation reaction may be CH₂Cl₂, DMF, CH₂ClCH₂Cl, toluene, benzene, H₂O, dioxane or the mixture of the above solvents.
8. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 5 wherein the reaction temperature is from -20°C to room temperature, in some cases, the heating is necessary, from 50° C to 130°C.

9. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 5 wherein the proper activated reagents of the condensation reaction were used, such as, HOBT, pentafluorophenol, molecular sieves.

10. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 5 wherein the proper base of the condensation reaction such as Et_3N , $\text{I-Pr}_2\text{EtN}$, Pyridine, DMAP were used as catalyst.

11. (Original) A methionine aminopeptidase inhibitor as claimed in claim 1, wherein these compounds were used as antitumor, and anti-infection drugs.

Respectfully submitted,

HUDAK, SHUNK & FARINE CO. LPA

A handwritten signature in black ink, appearing to read "Daniel J. Hudak". The signature is fluid and cursive, with the first name "Daniel" being more prominent.

By: Daniel J. Hudak
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